PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

TRANSMITTAL LETTER TO THE UNITED STATES			ATTORNEY'S DOCKET NUMBER T3653-8972US01		
DESIGNATED/ELECTED OFFICE (DO/EO/US)			U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE			PRIORITY DATE CLAIMED		
	605/04015	2/11/2005	2/11/2004		
TITLE OF INVENTION COMMUNICATION CHANNEL CAPACITY ESTIMATION					
APPLICANT(S) FOR DO/EO/US ZHENG, LING LUND, MICHAEL					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1. 🛛	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.				
2. 🗌	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.				
з. 🔲	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.				
4. 🗌	The US has been elected (Article 31).				
5. 🛛	A copy of the International Application as filed (35 U.S.C. 371(c)(2))				
	a. is attached hereto (required only if not communicated by the International Bureau).				
	b. has been communicated by the International Bureau.				
	c. is not required, as the application w				
6	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).				
÷	a. Lis attached hereto.				
7. 🔲	b. In has been previously submitted under 35 U.S.C. 154(d)(4).				
۱۰ اـــا	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))				
	 a.				
	c. have not been made; however, the time limit for making such amendments has NOT expired.				
	d. have not been made and will not be				
8. 🔲	An English language translation of the amer	ndments to the claims under PCT Arti	cle 19 (35 U.S.C. 371(c)(3)).		
9. 🛛	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).				
10.	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
Items 11 to 20 below concern document(s) or information included:					
11. 🛛	An Information Disclosure Statement under	37 CFR 1.97 and 1.98.			
12. 🔲	An assignment document for recording. A s	eparate cover sheet in compliance wi	th 37 CFR 3.28 and 3.31 is included.		
13. 🔲	A preliminary amendment.				
14. 🛛	An Application Data Sheet under 37 CFR 1.76.				
15. 🔲	A substitute specification.				
16. 🗌	A power of attorney and/or change of address letter.				
17. 🔲	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.				
18. 🗌	A second copy of the published International Application under 35 U.S.C. 154(d)(4).				
19. 🔲	A second copy of the English language trans	slation of the international application	under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ATTORNEY'S DOCKET NUMBER U.S. APPLICATION NO. (If known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/US05/04015 T3653-8972US01 20. Other items or information: **CALCULATIONS** PTO USE ONLY The following fees have been submitted 21. Basic national fee (37 CFR 1.492(a)) \$300 \$ 300 22. Examination fee (37 CFR 1.492(c)) \$ 200 If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)......\$0 All other situations. 23. 🖂 Search fee (37 CFR 1.492(b)) \$ 100 If the written opinion prepared by ISA/US or the International preliminary examination report prepared by International Searching Authority......\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB......\$400 \$600 TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.82(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Number of each additional 50 or fraction **Total Sheets** Extra sheets RATE thereof (round up to a whole number) \$ /50 = X \$250 -100 =Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after \$ the date of commencement of the national stage (37 CFR 1.492(h)). NUMBER EXTRA \$ **CLAIMS** NUMBER FILED RATE x \$50 \$ **Total Claims** 19 - 20 = 0 Independent Claims 7 - 3 = 4 x \$200 \$800 MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 TOTAL OF ABOVE CALCULATIONS = \$800 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. \$ 1400 SUBTOTAL = Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest \$ claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$ 1400 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED = \$ 1400 Amount to be \$ refunded: Amount to be \$1400 charged:

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

والمعقود والمدارات والمراجع المتعارض والمعارض والمتعارض والمتعارض

а. 🔲	A check in the amount of \$ to cover the above fees is enclosed.			
b. 🛚	Please charge my Deposit Account No. 50-1165 in the amount of \$ to cover the above fees A duplicate copy of this sheet is enclosed.			
c. 🔯	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1165. A duplicate copy of this sheet is enclosed.			
d. 🗌	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				
SEND ALL CORRESPONDENCE TO:				
1751 Pi Suite 5	Stockbridge P.C. nnacle Drive 00 n, VA 22102-3833	Jason H. Vick NAME 45,285 REGISTRATION NUMBER June 28, 2006 DATE		